

# CCD Guide 2024

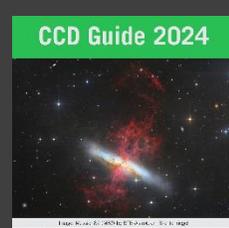


Image: Messier 82 (M82) by BTB-Astroteam Brentenriegel



# The CCD-Guide project

- Annually since 1997
- > 5000 images from 58 astrophotographers
- Including software
  - Extensive deep sky object database
  - Simultaneous viewing of object data, image data and preview image
  - Filtering of images according to various criteria
  - Create a slide show of selected images
  - Input of own images
  - ObjectTools for observation planning and object searches
  - Minimum system requirements



## Video tutorials

Introduction & Highlights:

CCD Guide - Video Tutorial #1 In...  
Später ans... Teilen

Your Window Into The Universe  
**CCD GUIDE**  
planning software for astrophotographers

- 1 Introduction
- 2 First Steps
- 3 Browser
- 4 Planner
- 5 Edit Setup
- 6 Edit Object
- 7 Edit Picture
- 8 Object Tracker
- 9 Object Marker / Viewer

CCD GUIDE [ccdguide.com](http://ccdguide.com)

Ansehen auf YouTube

First Steps:

CCD Guide - Video Tutorial #2 Fi...  
Später ans... Teilen

Your Window Into The Universe  
**CCD GUIDE**  
planning software for astrophotographers

- 1 Introduction
- 2 First Steps
- 3 Browser
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CCD GUIDE [ccdguide.com](http://ccdguide.com)

Ansehen auf YouTube

# Video tutorials on [ccdguide.com](http://ccdguide.com)



# FAQ

## LEVEL A

A01 - How do I install CCD-Guide?

A02 - How can I download the images?

A03 - As a newcomer, what is the best way to start with CCD-Guide?

A04 - How do I find astrophotos of a particular object?

A05 - How can I filter the astrophotos according to certain criteria, such as constellation, object type, camera or telescope, etc.?

A06 - How can I identify the objects in a CCD-Guide astrophoto?

A07 - How do I find suitable objects for an astro holiday with minimal effort?

A08 - When is the best time to observe a particular object today?

A09 - How can I create a new location in the ObjectTracker?

A10 - What to do if the virus scanner causes problems?

A11 - How can I make a CCD Guide update?

1. Start CCD\_Guide.exe and then click on the Browser button to start the CCD-Guide Browser.



2. At the same time as the Browser window appears, the Image downloader window opens automatically as soon as no images are available or images are still missing. Pressing the Start button in the Image downloader starts the download of the images. The download can run in the background, be paused and restarted at any time. The Image downloader window can also be started via the menu "File" -> "Start image downloader".

Nr	Filename	State	Length	Date	Path
1	ABELL0001-001.jpg	missing	1243941	5/26/2021 8:19 PM	images
2	ABELL0001-002.jpg	missing	1267422	5/26/2021 6:13 PM	images
3	ABELL0001-002_id.jpg	missing	1294026	5/26/2021 6:13 PM	images
4	ABELL0071-001.jpg	missing	274708	5/26/2021 6:13 PM	images
5	ABELL0071-001_id.jpg	missing	259789	5/26/2021 6:13 PM	images
6	ABELL0119-001.jpg	missing	403503	5/26/2021 8:19 PM	images
7	ABELL0119-001_id.jpg	missing	374659	5/26/2021 6:13 PM	images
8	ABELL0194-001.jpg	missing	417679	5/26/2021 8:18 PM	images
9	ABELL0194-001_id.jpg	missing	345252	5/26/2021 6:13 PM	images
10	ABELL0195-001.jpg	missing	662395	9/29/2021 5:25 PM	images
11	ABELL0262-001.jpg	missing	1471923	5/26/2021 8:19 PM	images
12	ABELL0262-001_id.jpg	missing	1534684	5/26/2021 6:14 PM	images

# FAQs on [ccdguide.com](http://ccdguide.com)





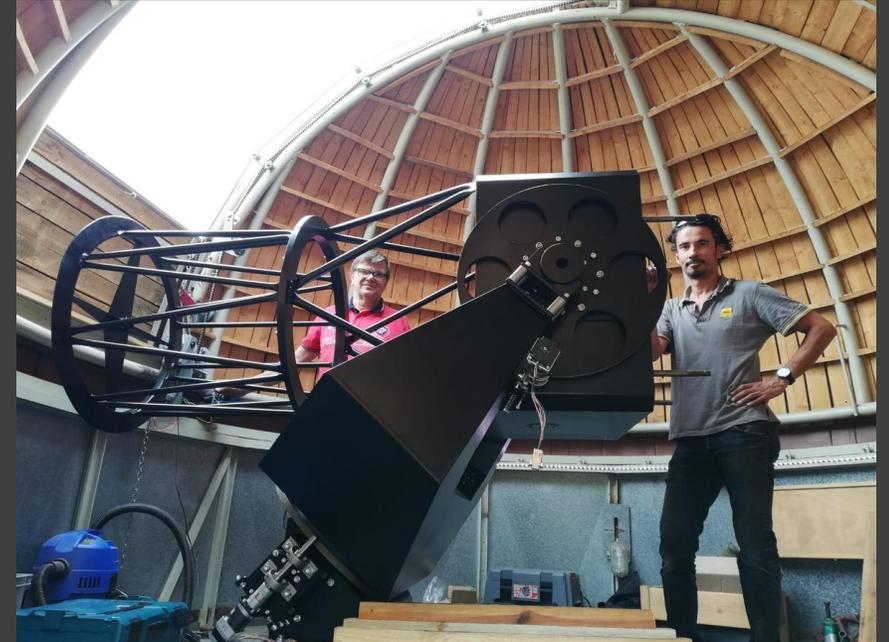
# Three new astrophotographers



Edith Mader



Robert Reitsam



Astroteam Brentenriegel

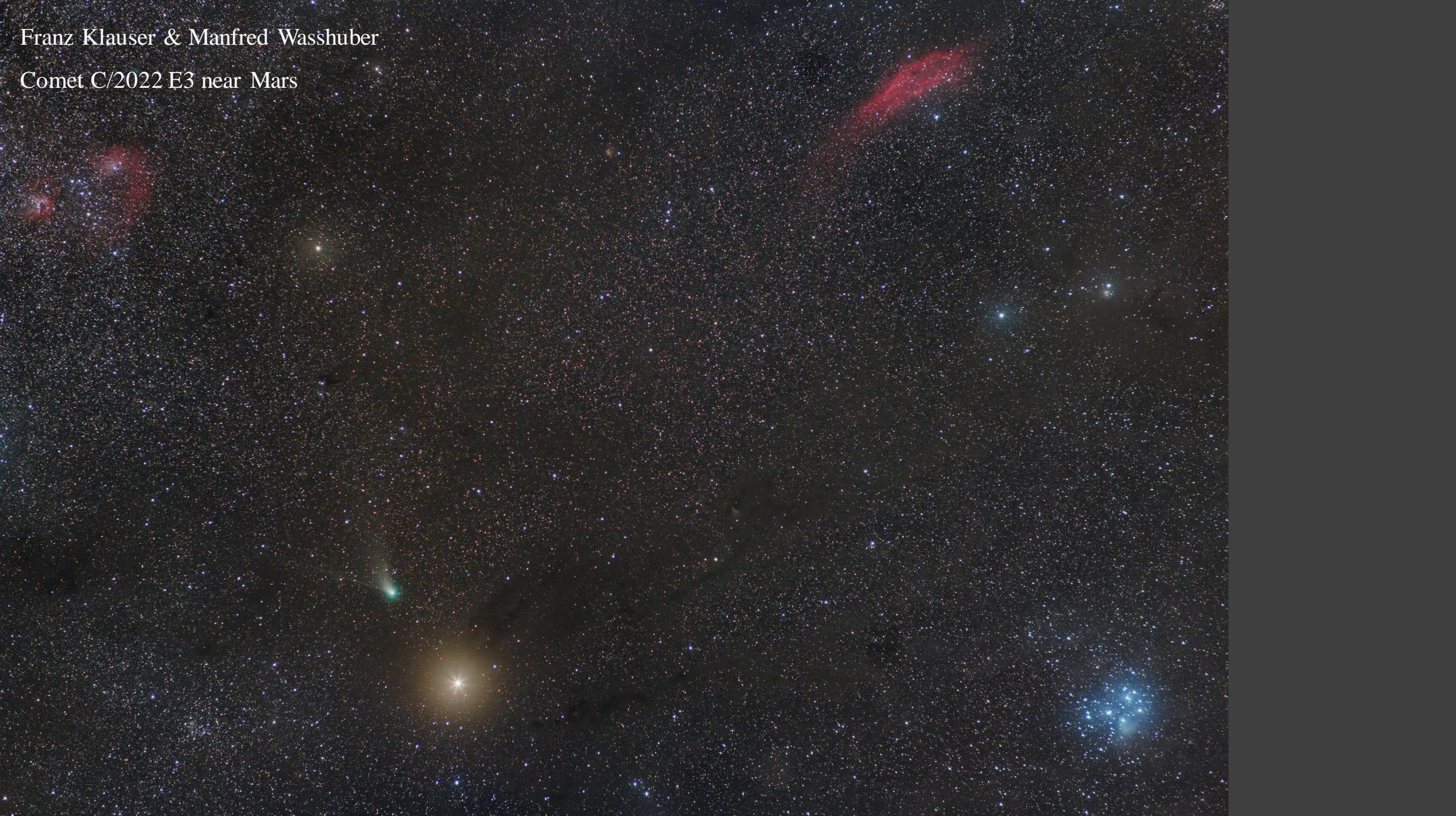


# 472 new images

- Very high quality
- Many new objects -> 1300 objects

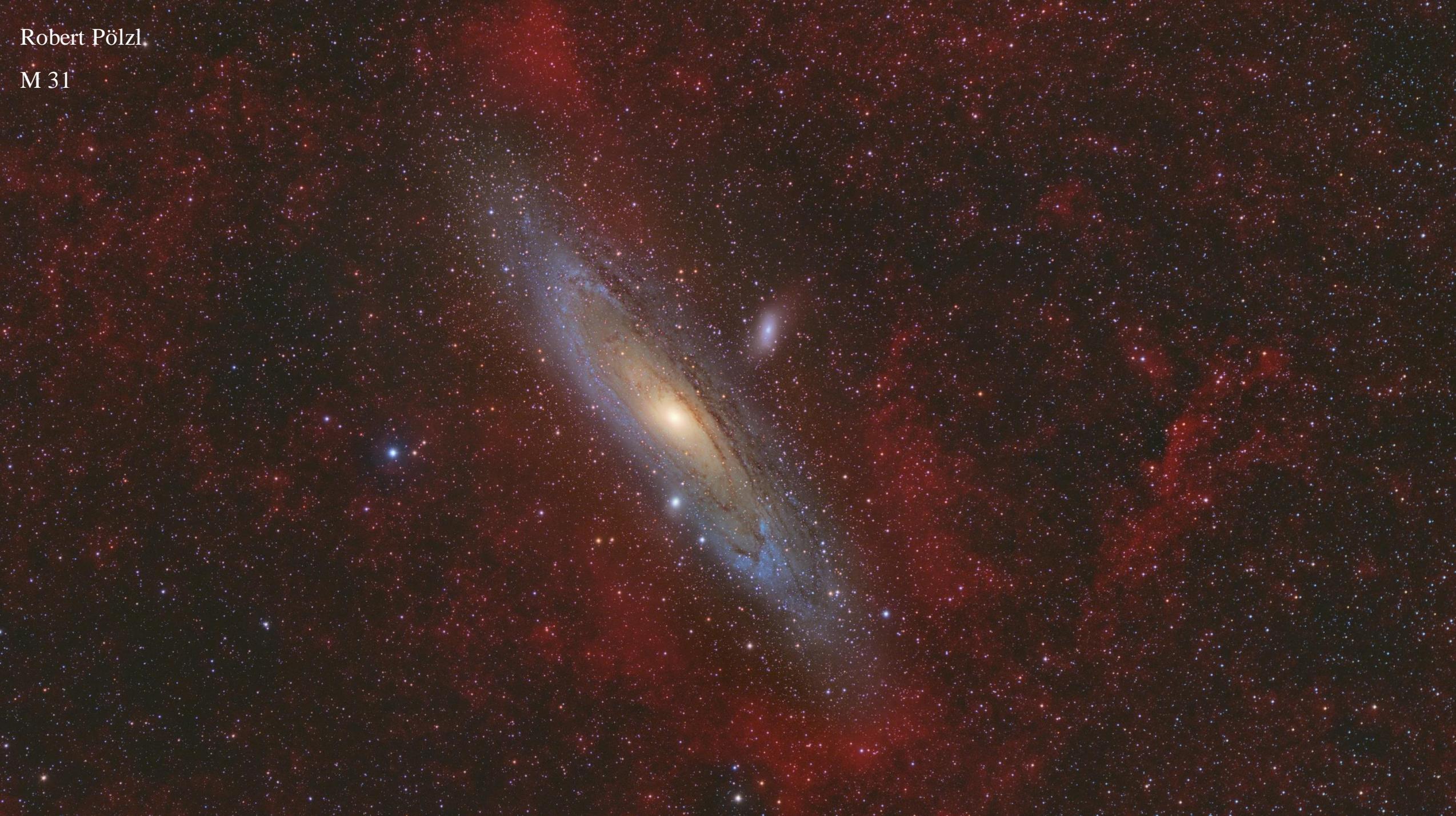
Franz Klauser & Manfred Wasshuber

Comet C/2022 E3 near Mars



Robert Pölzl

M 31



Bernhard Hubl

PN Abell 12



BTB Astroteam Brentenriegel

NGC 3166 + NGC 3169



Gerald Rhemann

LDN 43



Herbert Walter

NGC 2547



DSI Team & Markus Blauensteiner & Oliver Schneider

NGC 3201



Konstantin von Poschinger

Sandqvist 7



Günter Kerschhuber

IC 10



Thomas Henne

Sh 2-64



Christoph Flixeder

WR 134





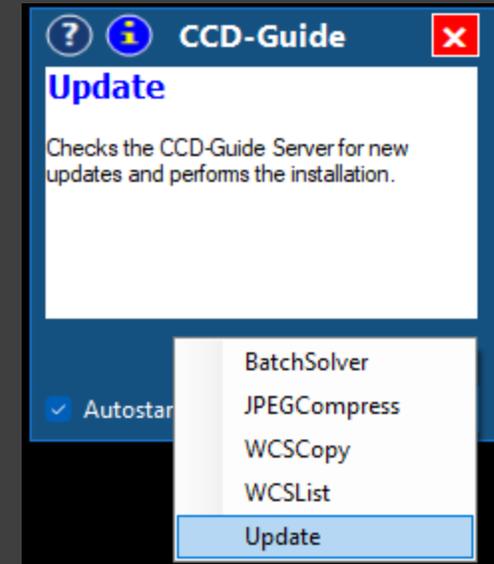
# CCD-Guide 2024 – Download

- Download of software in web shop
  - Zip file (approx. 40MB)
  - Download of images (approx. 13GB) with CCD-Guide software
- USB-Stick (16GB)
  - Delivery only to Europe (except UK)





# CCD-Guide 2024 software





# Browser – Download of images

The screenshot shows the CCD Guide Browser interface. On the left, a large image of a star field is displayed. Below it is a table of image files. On the right, an 'Image downloader' window is open, showing a list of images with their status (loaded or missing) and a progress bar indicating that 6702 images are waiting for download.

**Image downloader window:**

Nr	Filename	State	Length	Date	Path
1	ABELL0001-001.jpg	loaded	1243941	4/6/2022 5:44 PM	images
2	ABELL0001-002.jpg	loaded	1267422	4/6/2022 5:44 PM	images
3	ABELL0001-002_id.jpg	loaded	1294026	4/6/2022 5:44 PM	images
4	ABELL0071-001.jpg	loaded	274708	4/6/2022 5:44 PM	images
5	ABELL0071-001_id.jpg	loaded	259789	4/6/2022 5:44 PM	images
6	ABELL0119-001.jpg	loaded	403503	4/6/2022 5:44 PM	images
7	ABELL0119-001_id.jpg	loaded	374659	4/6/2022 5:44 PM	images
8	ABELL0194-001.jpg	loaded	417679	4/6/2022 5:44 PM	images
9	ABELL0194-001_id.jpg	loaded	345252	4/6/2022 5:44 PM	images
10	ABELL0195-001.jpg	missing	662395	4/6/2022 5:44 PM	images
11	ABELL0262-001.jpg	missing	1471923	4/6/2022 5:44 PM	images
12	ABELL0262-001_id.jpg	missing	1534684	4/6/2022 5:44 PM	images
13	ABELL0347-002.jpg	missing	1713398	4/6/2022 5:44 PM	images
14	ABELL0347-002_id.jpg	missing	1805503	4/6/2022 5:44 PM	images
15	ABELL0347-003.jpg	missing	1413862	4/6/2022 5:44 PM	images
16	ABELL0347-003_id.jpg	missing	1423873	4/6/2022 5:44 PM	images

Counts: 6702 images waiting for download. Total: 12623 MB  
 total: 6711  AutoDownloadCheck  
 completed: 9  0%

**Main Browser Table:**

Image filename	Object name	Object type	Constellation	Total exposure	Camera	Observation date	Telescope
ABELL0001-001.jpg	ABELL 1	Galaxy Cluster	Pegasus	1440	QSI 660wsg	2015-09-09	Newtonian
ABELL0001-002.jpg	ABELL 1	Galaxy Cluster	Pegasus	408	Canon EOS 6D	2015-11-01	Takahashi FSQ-106 ED
ABELL0119-001.jpg	ABELL 119	Galaxy Cluster	Cetus	180	Starlight Xpress SXV-H9	2011-09-03	Newtonian
ABELL1314-001.jpg	ABELL 1314	Galaxy Cluster	Ursa Major	1224	SBIG ST-2000XM	2012-03-16	Newtonian
ABELL1314-002.jpg	ABELL 1314	Galaxy Cluster	Ursa Major	720	SBIG ST-8300C	2012-03-16	TeleVue NP-101
ABELL1367-002.jpg	ABELL 1367	Galaxy Cluster	Leo	1120	Moravian G3-16200	2018-02-27	ASA 10N f 3.6
ABELL1367-003.jpg	ABELL 1367	Galaxy Cluster	Leo	372	Canon EOS 6Da	2019-04-01	Newtonian
ABELL1367-004.jpg	ABELL 1367	Galaxy Cluster	Leo	1672	QSI 660wsg	2022-03-03	Newtonian
ABELL1656-002.jpg	ABELL 1656	Galaxy Cluster	Coma Berenices	1370	Canon EOS 1000Da	2011-04-21	Skywatcher ED 120/900mm
ABELL1656-006.jpg	ABELL 1656	Galaxy Cluster	Coma Berenices	270	SBIG STL-11000M	2005-05-10	Cassegrain
ABELL1656-008.jpg	ABELL 1656	Galaxy Cluster	Coma Berenices	1140	SBIG ST-8300M	2015-04-21	Newtonian



# CCD-Guide Browser

- Easy switching between previously set filter states using the keyboard keys “Page up” / “Page down”

CCD Guide Browser, Version 4.2.8645.21063

File Options About

NGC0300-001.jpg      NGC0300-001\_id.jpg

Objectname Filter: NGC 300      Set Filter      Reset Filter      Browse      Databases

Image filename	Object name	Object type	Object class	Ra	Dec	Constellation
NGC0300-001.jpg	NGC 300	Galaxy	Scd	00h 54m 53.3s	-37° 41' 03"	Sculptor
NGC0300-002.jpg	NGC 300	Galaxy	Scd	00h 54m 53.3s	-37° 41' 03"	Sculptor
NGC0300-003.jpg	NGC 300	Galaxy	Scd	00h 54m 53.3s	-37° 41' 03"	Sculptor

CCD Guide Browser, Version 4.2.8645.21063

File Options About

ABELL0347-003.jpg      ABELL0347-003\_id.jpg

Objectname Filter: NGC 891      Set Filter      Reset Filter      Browse      Databases

Image filename	Object name	Object type	Object class	Ra	Dec	Constellation
ABELL0347-003.jpg	ABELL 347	Galaxy Cluster	Count= 32	02h 25m 48.0s	41° 52' 00"	Andromeda
NGC0891-012.jpg	NGC 891	Galaxy	Sb	02h 22m 33.0s	42° 20' 50"	Andromeda
NGC0891-013.jpg	NGC 891	Galaxy	Sb	02h 22m 33.0s	42° 20' 50"	Andromeda



# Expert – Action Button (>>>)

Objectname Filter  Set Filter Reset Filter Slide Show >>> Listview = Standard

PlannerData

SETUPNAME	STATE	PLANERCOMMENT	OBJNAME	OBJECTTYPE	OBJCLASS
Newt_QSI660	1	RA: 11h 44m 36s, D	ABELL 1367	Galaxy Cluster	Count= 117
TEC_QHY268	0	RA: 11h 47m 52s, D	ABELL 1377	Galaxy Cluster	Count= 59
Newt_QSI660	0	RA: 11h 46m 55s, D	ABELL 1377	Galaxy Cluster	Count= 59

Planetarium  
Sky-map.org  
Object Tracker  
Object Marker

- New in „Edit Object“ tab

>>> Listview = Standard

Planetarium  
Sky-map.org  
Object Tracker  
Export To Planner

- New in „Edit Picture“ tab

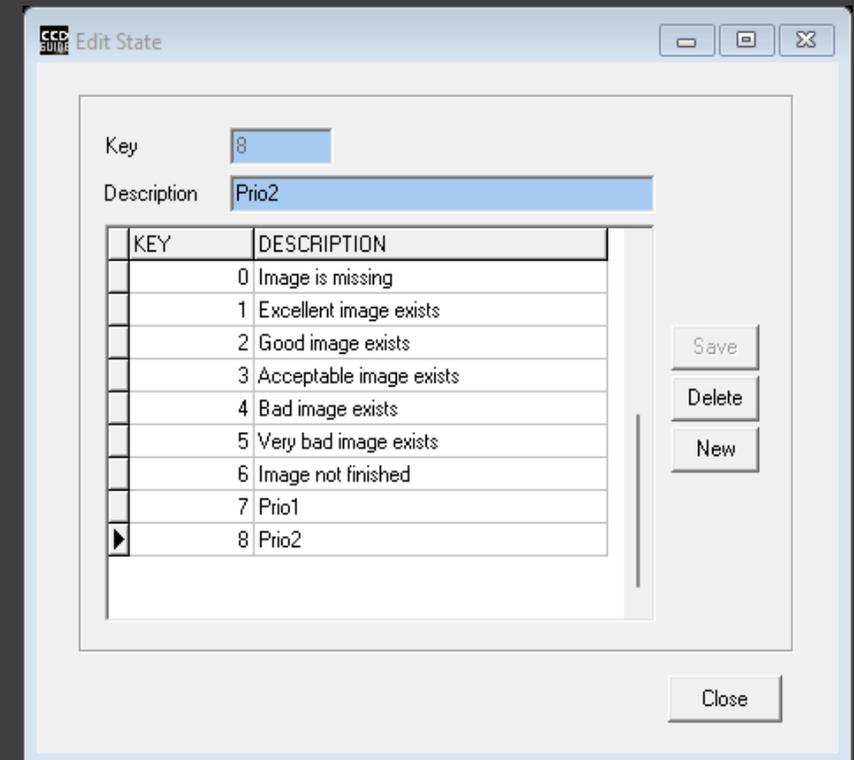
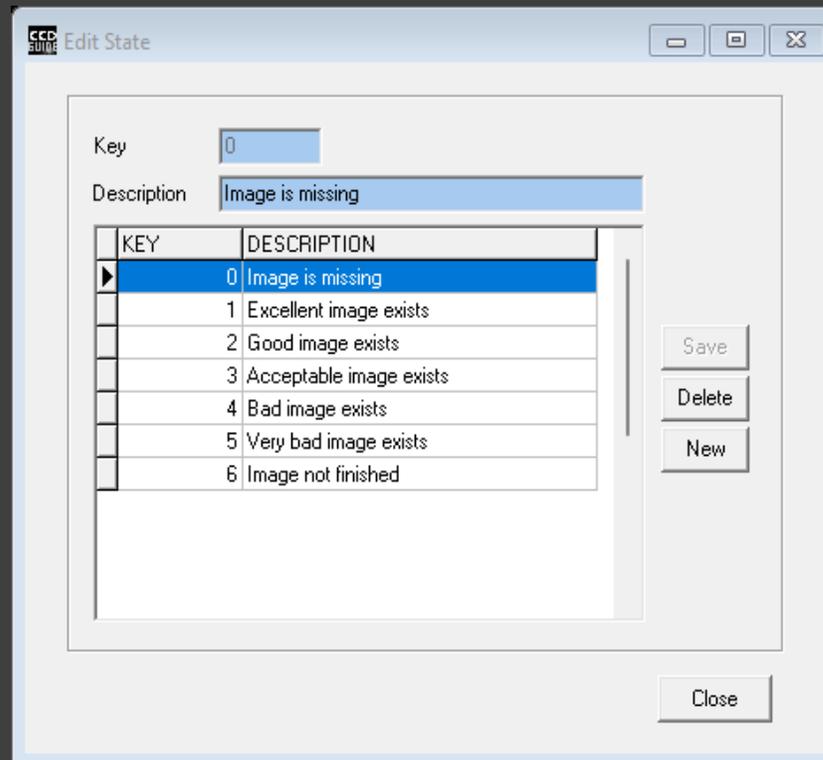
>>> Listview = Standard

Planetarium  
Sky-map.org  
Object Tracker  
Object Marker



# Expert – Edit State

- Edit planner states in „Edit Setup“ tab
- e.g. for defining priorities





# Expert – Multiple selection of states

CCD-Guide Expert 4.2

Planner | Edit Setup | Edit Object | Edit Picture | Options | Help | About

**Edit**

Setupname: **TEC\_QHY268** | Telescope = TEC APO 200 FL  
 Camera = QHY 268M  
 Focallength = 1490mm / FOV = 54,2'x40,4'

Objectname: **ABELL 1377** | Set Object | Objectname

State: **7 - Prio1**

Image From: **FOV Image**

Imagename: **Ref Image**

Planner Comm. RA: 11h 47m 52s, DE: +55° 51' 08"

Objectname Filter: [ ] | **Set Filter** | Reset Filter

Slide Show >>> Listview = Standard

SETUPNAME	STATE	PLANERCOMMENT	OBJNAME	OBJECTTYPE	OBJCLASS	RATXT	DETXT	CO
Newt_QSI660	1	RA: 11h 44m 36s, D	ABELL 1367	Galaxy Cluster	Count= 117	11h 44m 30.0s	+19° 50' 00"	Lew
<b>TEC_QHY268</b>	<b>7</b>	<b>RA: 11h 47m 52s, D</b>	<b>ABELL 1377</b>	<b>Galaxy Cluster</b>	<b>Count= 59</b>	<b>11h 47m 00.0s</b>	<b>+55° 44' 00"</b>	<b>Urs</b>
Newt_QSI660	0	RA: 11h 46m 55s, D	ABELL 1377	Galaxy Cluster	Count= 59	11h 47m 00.0s	+55° 44' 00"	Urs

Planner Criteria

Setups

- Baader\_APO95\_Z6
- Chile\_AP175
- Chile\_Nik500mm
- Chile\_RC14
- Chile\_RC20
- Chile\_RHA305
- ChileScope
- EF200\_EOS6D
- Esprit\_6D
- FSQ\_6D

All None

State

- 2 - Good image exists
- 3 - Acceptable image exists
- 4 - Bad image exists
- 5 - Very bad image exists
- 6 - Image not finished
- 7 - Prio1
- 8 - Prio2

All None

Ref Images:  Exist  Not Exist  Full

FOV Images:  Exist  Not Exist  Full



# Expert – „FOV image exists“ Filter

CCD-Guide Expert 4.2

Planner | Edit Setup | Edit Object | Edit Picture | Options | Help | About

**Edit**

Setupname: **TEC\_QHY268** Telescope = TEC APO 200 FL  
 Camera = QHY 268M  
 Focallength = 1490mm / FOV = 54,2'x40,4'

Objectname: **ABELL 1377** Set Object: Objectname

State: **7 - Prio1**

Image From: FOV Image

Imagename: Ref Image

Planner Comm. RA: 11h 47m 52s, DE: +55° 51' 08"

Objectname Filter: [ ] Set Filter Reset Filter

Slide Show >>> Listview = Standard

SETUPNAME	STATE	PLANERCOMMENT	OBJNAME	OBJECTTYPE	OBJCLASS	RATXT	DETXT	CO
Newt_QSI660	1	RA: 11h 44m 36s, D	ABELL 1367	Galaxy Cluster	Count= 117	11h 44m 30.0s	+19° 50' 00"	Le
<b>TEC_QHY268</b>	<b>7</b>	<b>RA: 11h 47m 52s, D</b>	<b>ABELL 1377</b>	<b>Galaxy Cluster</b>	<b>Count= 59</b>	<b>11h 47m 00.0s</b>	<b>+55° 44' 00"</b>	<b>Urs</b>
Newt_QSI660	0	RA: 11h 46m 55s, D	ABELL 1377	Galaxy Cluster	Count= 59	11h 47m 00.0s	+55° 44' 00"	Urs

Planner Criteria

Setups

- Baader\_AP095\_Z6
- Chile\_AP175
- Chile\_Nik500mm
- Chile\_RC14
- Chile\_RC20
- Chile\_RHA305
- ChileScope
- EF200\_EOS6D
- Esprit\_6D
- FSQ\_6D

All None

State

- 0 - Image is missing
- 1 - Excellent image exists
- 2 - Good image exists
- 3 - Acceptable image exists
- 4 - Bad image exists
- 5 - Very bad image exists
- 6 - Image not finished

All None

Ref Images:  Exist  Not Exist  Full

FOV Images:  Exist  Not Exist  Full



# Expert – Edit Object

Get Pos:

- RA/DE coordinates from clipboard (SIMBAD format)

Basic data :

**NAME Aquarius Dwarf -- Galaxy**

Other object types: G (2008ApJ, AGC, ...), HI (HIPASS)

ICRS coord. (ep=J2000) : 20 46 51.7 -12 50 54 (Optical)

FK4 coord. (ep=B1950 eq=1950) : 20 44 06.4 -13 01 56 [ ]

Gal coord. (ep=J2000) : 034.0486 -31.3430 [ ]

Set Const:

- Set constellation

CCD-Guide Expert 4.2

Planner | Edit Setup | Edit Object | Edit Picture | Options | Help | About

ObjectData

Catalogue: UNLISTED Name: Aquarius Dwarf Objecttype: Galaxy

RA: [ ] [h] [ ] [m] [ ] [s] RA2000: 20,78138889 RaTxt: 20h 46m 53s

DE: + [ ] ['] [ ] ['] [ ] ["] DE2000: -12,84888889 DeTxt: -12° 50' 56"

Mag: [ ] Objectsize: 2 Constellation: Aquarius

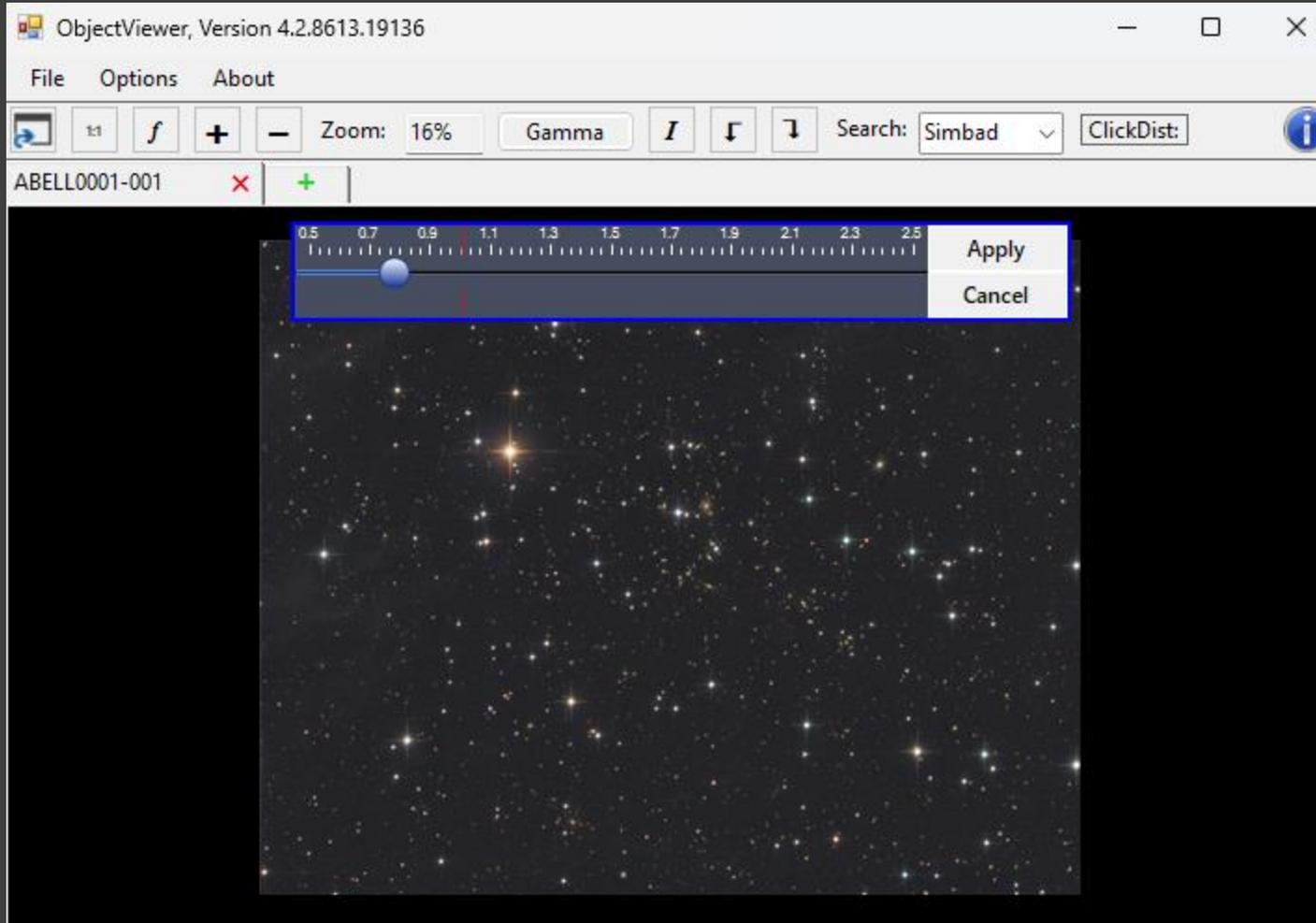
Comment: PGC 65367

Objectname Filter: [ ] Set Filter Reset Filter

SOURCE	OBJECTNAME	OBJECTTYPE	OBJCLASS	RATXT	RA2000	DETXT	DE2000	
USER	UNLISTED Andromeda V	Galaxy	dSph	01h 10m 17s	1,17138889	+47° 37' 41"	47,62805556	A
▶ USER	UNLISTED Aquarius Dwarf	Galaxy		20h 46m 53s	20,78138889	-12° 50' 56"	-12,84888889	A
USER	UNLISTED Bernes 71	Reflection Nebula		04h 14m 05s	4,23472222	+28° 12' 48"	28,21333333	T



# ObjectViewer – Gamma



- For each opened image the gamma value can be changed temporarily



# ObjectMarker – File selection

ObjectMarker, Version 4.2.8682.21411

File Options About

NGC3166-002.jpg File  Explorer  Catalog  Full name   Output:

Filter:

include	Catalog	Min. Diameter	Draw Labels
<input checked="" type="checkbox"/>		all: <input type="text" value="0"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	ABELL	0	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	ARP	0	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	BARNARD	0	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	CED	0	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	CG	0	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	COMETS	0	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	CONST	0	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	DCLD	0	<input checked="" type="checkbox"/>



Catalog directory: D:\temp\ccdguide2024\userdata\cat  
 Cache file : D:\temp\ccdguide2024\userdata\cat\\_OT\_Cache.xml

Image file selector

Master Database  User Database

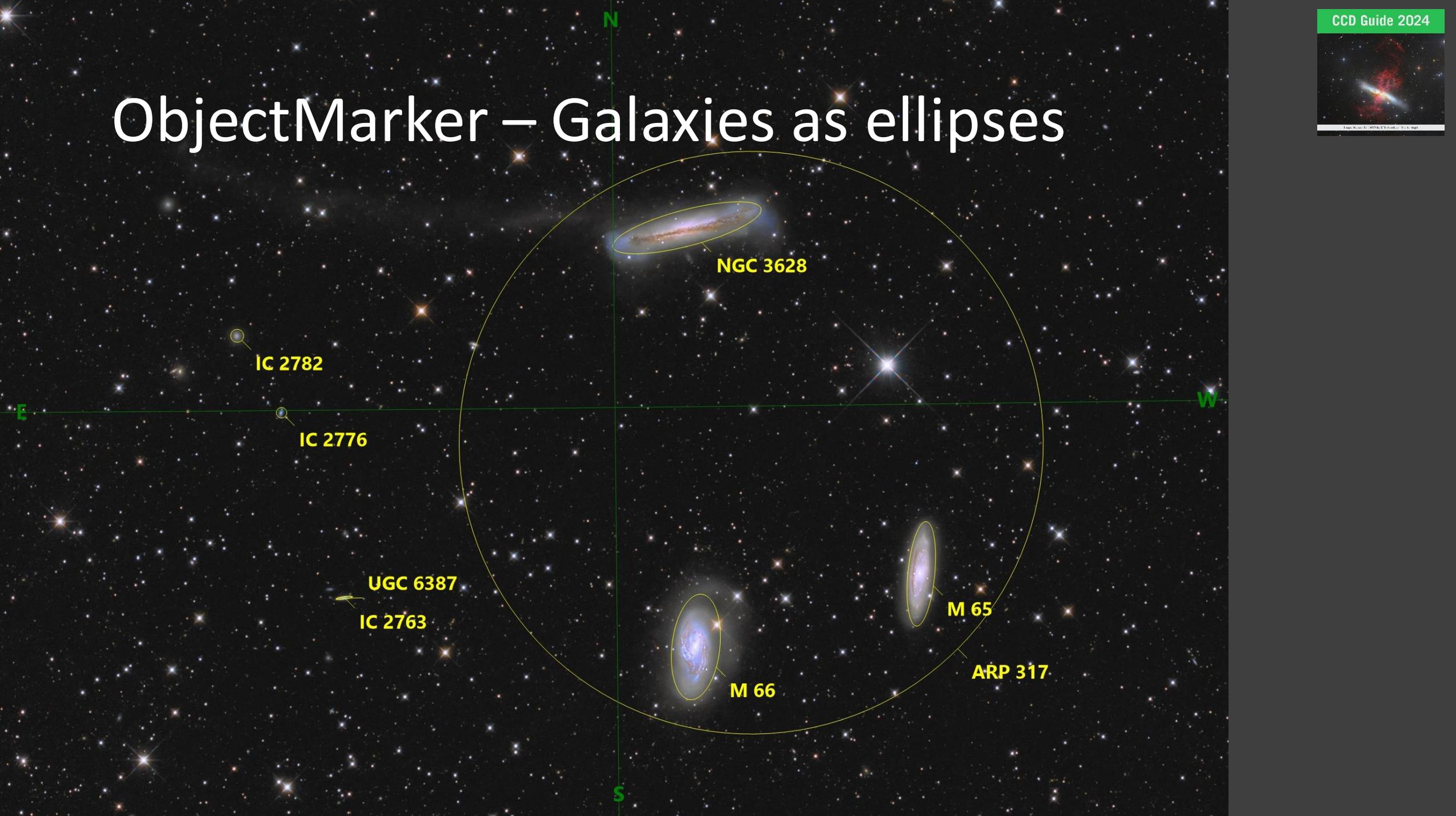


Catalogs [33]

- ABELL [68]
- ARP [57]
- BARNARD [183]
- CED [24]
- CG [9]
- COMET [64]
- CONST [85]



# ObjectMarker – Galaxies as ellipses



NGC 3628

IC 2782

IC 2776

UGC 6387

IC 2763

M 66

M 65

ARP 317



# ObjectSky – Galaxies as ellipses

ObjectSky - CCD Guide Planetarium, Version 4.2.1.10, Nussbach Newt W, Date & Time: Thursday, 11 April 2024 00:00:00

File Find Location Date & Time Drawings Catalogs Options Comm Telescope Specials About

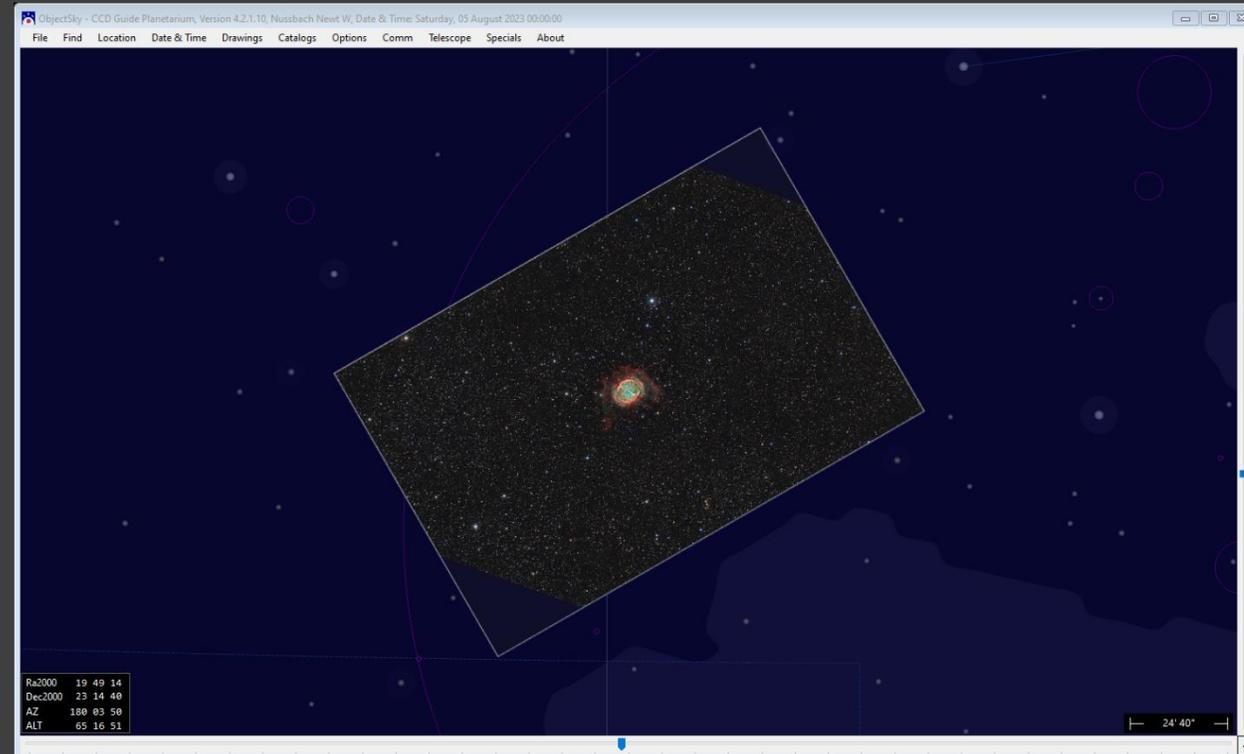
Ra2000	11 19 03
Dec2000	13 38 08
AZ	224 53 43
ALT	48 04 51

18' 00"



# ObjectSky – Telescope

- Image field of a telescope + camera combination



Telescope    Specials    About

Sensor & Telescope

Select from database

Sensor width [mm]    36

Sensor height [mm]    24

Focal [mm]    1000.0

Extender | Reducer [ x ]    1

**FOV = 123.8' x 82.5'**

Frame

Show telescope frame

Shadow outside

Rotation [degree]    30

Image

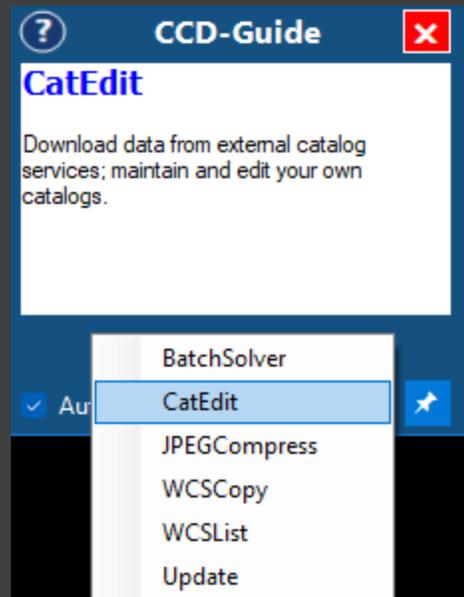
No image

Image in front

Grid in front



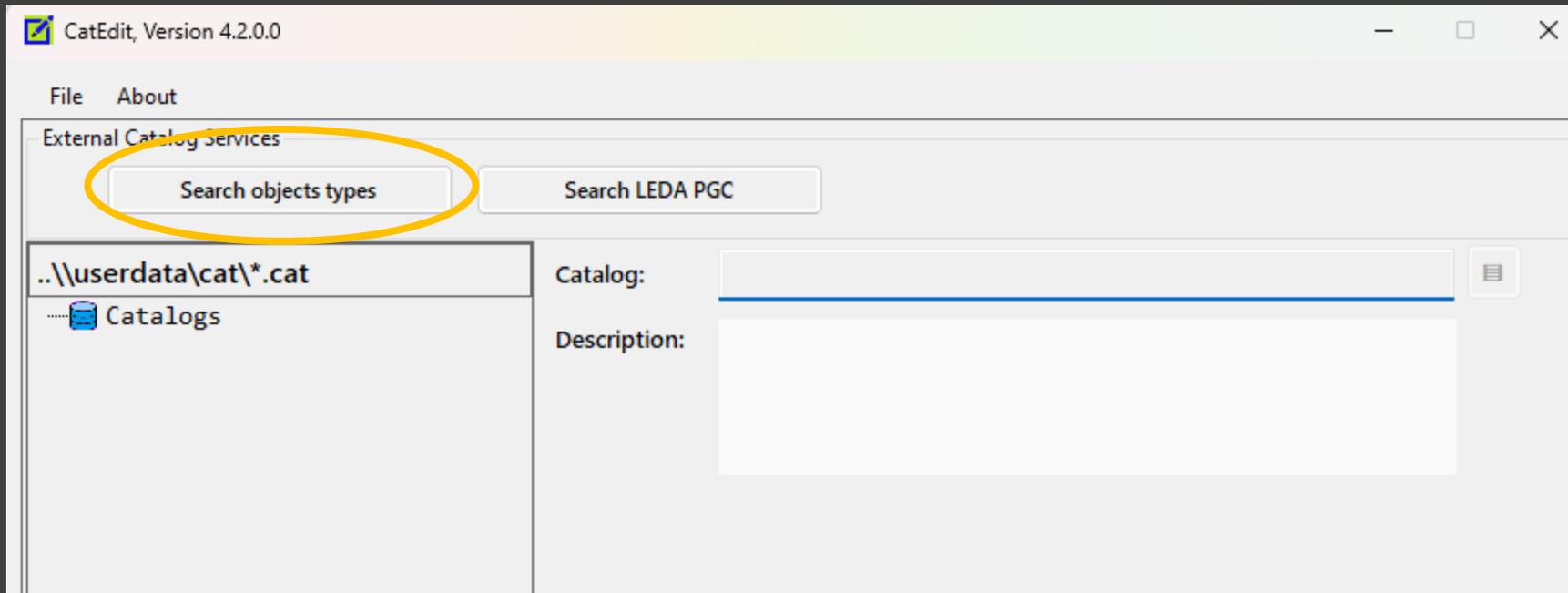
# CatEdit – New Utility



- Download object data from external services
  - VizieR
  - HyperLEDA
- Maintain and edit own catalogs

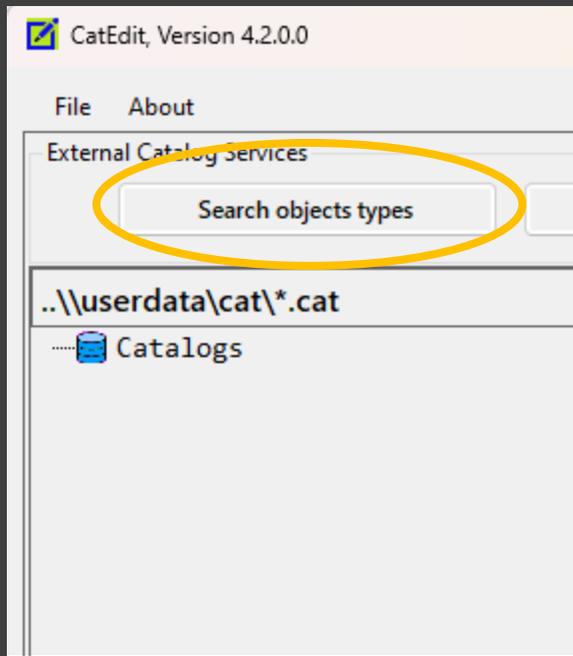


# CatEdit – Search objects types I





# CatEdit – Search objects types I



**Object type search**

**Constraints**

Field center and dimensions

All sky

Cone

**Box**

Select an object type to search

Helper:

Object type:

Magnitude limits

Filter:

Mag from:

Mag to:

Download

Max. count:

Object Type	Object name	Ra	Dec	Morph. Type	Size A [arc min]	Size B [arc min]	PA [degree]	Mag	Dist [arc min]

Rows Count:

Save

Set catalog name:



# CatEdit – Search objects types I

The image shows a composite of three windows from the CatEdit software. The background window is the main application, titled "CatEdit, Version 4.2.0.0", with a menu bar (File, About) and a toolbar. A yellow circle highlights the "Search objects types" button in the "External Catalog services" section. The middle window is the "Object type search" dialog, with a yellow circle around the "Box" button under the "Field center and dimensions" section. The foreground window is the "Box search - Get position and size" dialog, which contains the following fields and buttons:

- Object name:
- Image:   (circled in yellow)
- RA:  DEC:
- Size [arc min]:  
Width:  Height:
- 

The background image shows a star field with a central bright object, and a purple box highlights this object. At the bottom of the image, a status bar displays the coordinates and size of the box: "box RA: 00 38 58.733 DEC: 48 19 42.358 Width: 15.00 Height: 15.00



# CatEdit – Search objects types II

Object type search

Constraints

Field center and dimensions

All sky

Ra = 00 38 58.733  
 Dec = 48 19 42.358  
 Width = 15.000'  
 Height = 15.000'

Cone

Box

Select an object type to search

Helper: **Get Otype**

Object type:

Magnitude limits

Filter: none

Mag from: 0

Mag to: 15

Download

Max. count: 100

Download

Object Type	Object name	Ra	Dec	Morph. Type	Size A [arc min]	Size B [arc min]	PA [degree]	Mag	Dist [arc min]

Rows Count:

Select all   Select none   Remove selected

Save

Set catalog name:  Save catalog

OK



# CatEdit – Search o

Object type search

Constraints

Field center and dimensions

All sky    Ra = 00 38 58.733  
 Dec = 48 19 42.358  
    Width = 15.000'  
    Height = 15.000'

Select an object type to search

Helper:

Object type:

Object Type	Object name	Ra	Dec	Morph. Type	Size A [arc min]	Size [arc

Rows Count:

VizieR registered object types

Choose an object type

- [-] multiple\_object Composite object
  - Region                    Region defined in the sky
  - • Void                    Underdense region of the Universe
  - SuperClG                Supercluster of Galaxies
  - ClG                      Cluster of Galaxies
  - GroupG                 Group of Galaxies
  - • Compact\_Gr\_G        Compact Group of Galaxies
  - PairG                    Pair of Galaxies
  - • IG                      Interacting Galaxies
  - Cl\*?                     Possible (open) star cluster
  - GlCl?                    Possible Globular Cluster
  - Cl\*                      Cluster of Stars
  - • GlCl                    **Globular Cluster**
  - • OpCl                    Open (galactic) Cluster
  - Assoc\*                    Association of Stars
  - • Stream\*                Stellar Stream
  - • MouVGroup            Moving Group
  - \*\*                        Double or multiple star
  - • EB\*                     Eclipsing binary
  - • • EB\*Algol            Eclipsing binary of Algol type
  - • • EB\*betLyr          Eclipsing binary of beta Lyr type
  - • • EB\*WUMa            Eclipsing binary of W UMa type
  - • SB\*                     Spectroscopic binary
  - • EllipVar                Ellipsoidal variable Star
  - • Svmbiotic\*            Svmbiotic Star

Object type GIC [Globular Cluster]



# CatEdit – Search objects types III

Retrieve objects from source file: D:\temp\ccdguide2024\userdata\cat\objt.txt

**Constraints**

Field center and dimensions

All sky

Ra = 00 38 58.733  
 Dec = 48 19 42.358  
 Width = 15.000'  
 Height = 15.000'

Cone

Box

Select an object type to search

Helper:

Object type:

Magnitude limits

Filter:

Mag from:

Mag to:

Download

Max. count:

Object Type	Object name	Ra	Dec	Morph. Type	Size A [arc min]	Size B [arc min]	PA [degree]	Mag	Dist [arc min]
GIC	FJJ NGC 185 I	00 38 42.700	48 18 40.400		0.000	0.000	0.000	99.000	2.858
GIC	FJJ NGC 185 II	00 38 48.100	48 18 15.000		0.000	0.000	0.000	99.000	2.290
GIC	FJJ NGC 185 III	00 39 03.800	48 19 57.500		0.000	0.000	0.000	99.000	0.879
GIC	FJJ NGC 185 IV	00 39 12.200	48 22 48.200		0.000	0.000	0.000	99.000	3.821
GIC	FJJ NGC 185 V	00 39 13.400	48 23 04.900		0.000	0.000	0.000	99.000	4.163
GIC	FJJ NGC 185 VII	00 39 18.400	48 23 03.600		0.000	0.000	0.000	99.000	4.682

Rows Count:

Save

Set catalog name:



# CatEdit – Search objects types IV

CatEdit, Version 4.2.0.0

File About

External Catalog Services

Search objects types    Search LEDA PGC

..\userdata\cat\\*.cat

- Catalogs
  - NGC0185\_GCL
    - FJJ NGC 185 I
    - FJJ NGC 185 II**
    - FJJ NGC 185 III
    - FJJ NGC 185 IV
    - FJJ NGC 185 V
    - FJJ NGC 185 VII

Catalog: **NGC0185\_GCL**

Description: Simbad query  
reference: D:\temp\ccdguide2024\images\NGC0185-010.jpg  
object type G1C  
box 9.744721,48.328433,0.25,0.25)

Object name: **FJJ NGC 185 II**

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Ra: **00 38 48.100**      Dec: **48 18 15.000**

Mag: **99**

NB: **99**      SB: **99**

ObjSizeA: **0**      ObjSizeB: **0**

PA: **0**

ObjType: **G1C**    MType:    ConstType: **CAS**



# CatEdit – What for?

ObjectMarker, Version 4.2.8682.21411

File Options About

NGC0185-010.jpg File  Explorer  Catalog  Full name

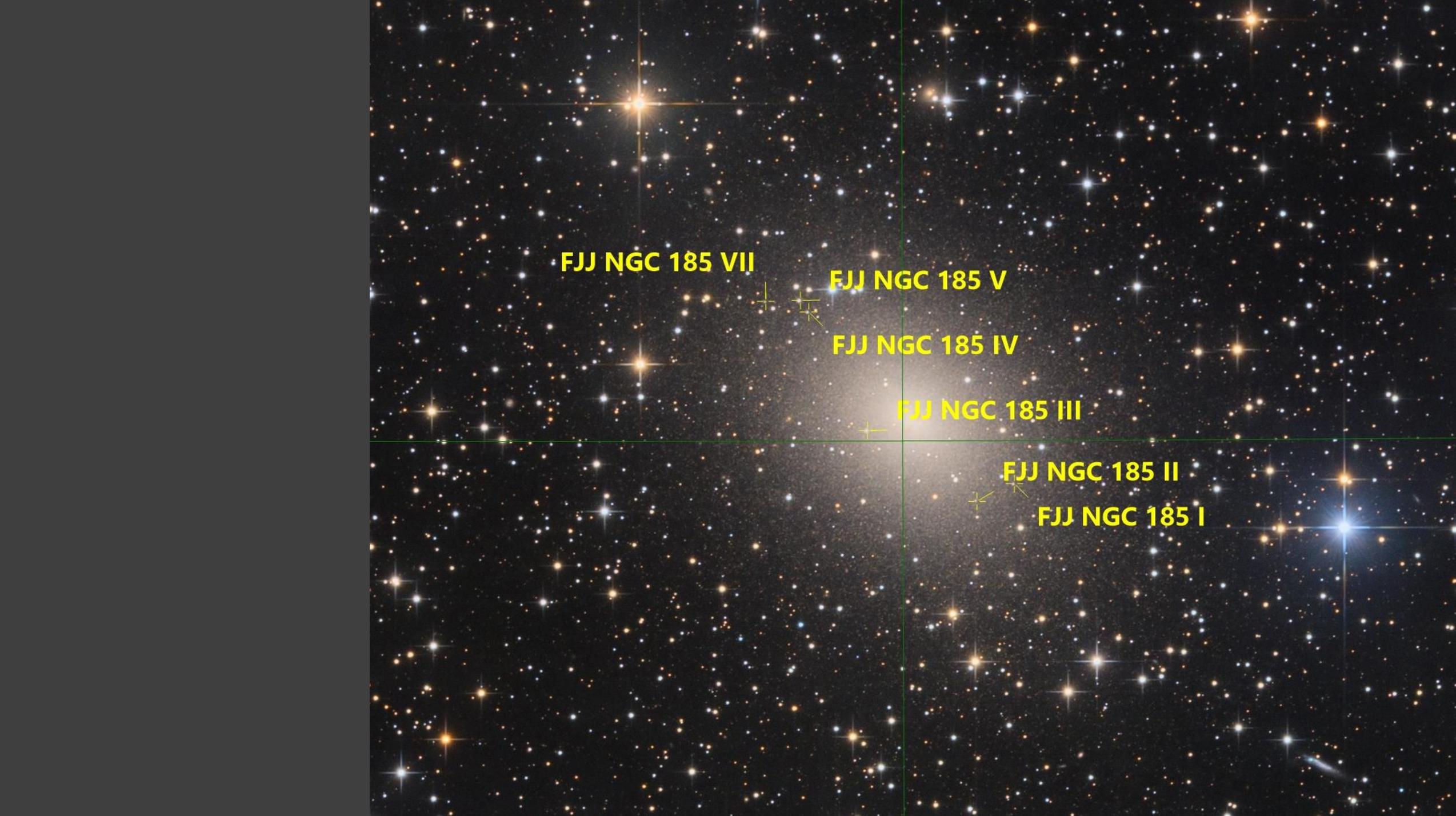
Solve View Output: Color

Filter: prim. id

include	Catalog	Min. Diameter all: 0	Draw Labels
<input type="checkbox"/>	LDN	0	<input checked="" type="checkbox"/>
<input type="checkbox"/>	M	0	<input checked="" type="checkbox"/>
<input type="checkbox"/>	NAME	0	<input checked="" type="checkbox"/>
<input type="checkbox"/>	NGC	0	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	NGC0185_GCL	0	<input checked="" type="checkbox"/>
<input type="checkbox"/>	OCL	0	<input checked="" type="checkbox"/>
<input type="checkbox"/>	PGC	0	<input checked="" type="checkbox"/>
<input type="checkbox"/>	PK	0	<input checked="" type="checkbox"/>



Catalog directory: D:\temp\ccdguide2024\userdata\cat  
 Cache file : D:\temp\ccdguide2024\userdata\cat\\_OT\_Cache.xml

A star field with a grid overlay. The grid consists of a vertical green line and a horizontal green line. Seven stars are marked with small crosses and labeled in yellow text. The labels are: FJJ NGC 185 VII, FJJ NGC 185 V, FJJ NGC 185 IV, FJJ NGC 185 III, FJJ NGC 185 II, and FJJ NGC 185 I. The stars are arranged in a roughly diagonal line from the upper left to the lower right. The background is a dense field of stars of various colors and magnitudes.

**FJJ NGC 185 VII**

**FJJ NGC 185 V**

**FJJ NGC 185 IV**

**FJJ NGC 185 III**

**FJJ NGC 185 II**

**FJJ NGC 185 I**

# Hands on CCD-Guide

## CCD Guide 2024



Image: Messier 82 (M82) by BTB-Astroteam Brentenriegel

# How to buy CCD-Guide?

## CCD Guide 2024



Image: Messier 82 (M82) by BTB-Astroteam Breitenriegel

- [www.ccdguide.com](http://www.ccdguide.com)
- Standard price:
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  - USB stick 39 EUR
- Update price:
  - Download 19 EUR
  - USB stick 29 EUR